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FULL SEARCH INITIATED 09:52:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7134 TO ITERATE

100.0% PROCESSED 7134 ITERATIONS 35 ANSWERS
SEARCH TIME: 00.00.01

L3 35 SEA SSS FUL L1

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	172.10	172.94

FILE 'CAPLUS' ENTERED AT 09:52:10 ON 11 JUL 2007
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FILE LAST UPDATED: 10 Jul 2007 (20070710/ED)

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L4 14 L3

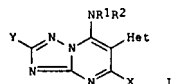
=> d l4 1-14 ibib abs hitstr

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:227834 CAPLUS
DOCUMENT NUMBER: 146:245859
TITLE: Preparation of 7-amino-6-triazolyl-1,2,4-triazolo[1,5-a]pyrimidine derivatives as fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 77pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

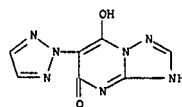
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023018	A1	20070301	WO 2006-EP63960	20060706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPL. INFO.: DE 2005-102005033160A 20050713
OTHER SOURCE(S): MARPAT 146:245859
GI

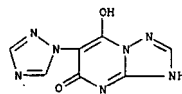


AB The 7-amino-6-triazolyl-1,2,4-triazolo[1,5-a]pyrimidine deriva. I [Het = (un)substituted 1,2,3- or 1,2,4-triazolyl; R1 = H, (cyclo)alkyl; alkenyl, alkadienyl, etc.; R2 = R1, (cyclo)alkoxy, alkenyloxy, alkynyloxy or amino; R1NR2 = heterocyclyl; X = H, OH, halo, cyano, alkyl, alkoxy, (un)substituted amino, etc.; Y = H, halo, cyano, (cyclo)alkyl, etc.] are prepared as fungicides.
IT 925686-90-4P 925686-92-6P 925686-94-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate in preparation of 7-amino-6-triazolyl-1,2,4-triazolo[1,5-a]pyrimidine derivative fungicide)
RN 925686-90-4 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(2H-1,2,3-triazol-2-yl)- (CA INDEX NAME)

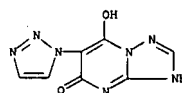
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 925686-92-6 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1H-1,2,4-triazol-1-yl)- (CA INDEX NAME)



RN 925686-94-8 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1H-1,2,3-triazol-1-yl)- (CA INDEX NAME)



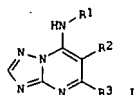
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:220260 CAPLUS
DOCUMENT NUMBER: 146:295943
TITLE: Preparation of 7-amino-6-pyrazolyl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 67pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023020	A1	20070301	WO 2006-EP63964	20060706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

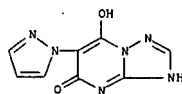
PRIORITY APPL. INFO.: DE 2005-102005033145A 20050713
OTHER SOURCE(S): MARPAT 146:295943
GI



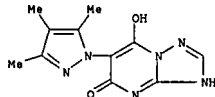
AB Title compds. [I: R1 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkadienyl, etc.; R2 = (substituted) pyrrolyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, (iso)thiazolyl; R3 = H, halo, OH, cyano, NR4R5, (halo)alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; R4, R5 = R1], were prepared. Thus, a mixture of 5,7-dichloro-6-(pyrazol-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine (preparation given), (R)-2-methylbut-3-ylamine and Et3N in CH2Cl2 was stirred at room temperature for 48 h to give (R)-5-chloro-7-(2-methylbut-3-ylamino)-6-(pyrazol-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. Several I as 250 ppm sprays on paprika leaves infected with Botrytis cinerea reduced the infection rate to 20%, vs. 90% for untreated controls.
IT 927821-92-9P 927821-94-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (amino)pyrazolyltriazolopyrimidines as agrochem. fungicides)
RN 927821-92-9 CAPLUS

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1H-pyrazol-1-yl)- (CA INDEX NAME)



RN 927821-94-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3,4,5-trimethyl-1H-pyrazol-1-yl)- (CA INDEX NAME)



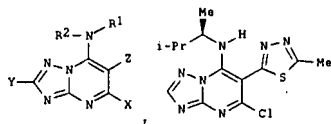
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2007:118114 CAPLUS
DOCUMENT NUMBER: 146:206313
TITLE: Preparation of [1,2,4]triazolo[1,5-a]pyrimidin-7-
amines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 75pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007012642	A1	20070201	WO 2006-EP64627	20060725
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005036319A 20050729
OTHER SOURCE(S): MARPAT 146:206313
GI



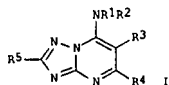
AB Title compds. I [Z = heteroaryl ring with provisos; R1, R2 = H, alkyl, alkenyl, etc.; X = H, halo, CN, etc.] were prepared. For example, pyrimidinylamine II was prepared from 3-aminotriazole in 3-steps. Compds. I exhibited inhibition of botrytis cinerea growth.
IT 923281-36-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
RN 923281-36-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(5-methyl-1,3,4-thiadiazol-2-yl)- (CA INDEX NAME)

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2007:58226 CAPLUS
DOCUMENT NUMBER: 146:163132
TITLE: Preparation of 7-amino-6-heteroaryl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 72pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

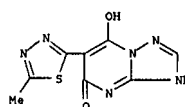
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007006722	A1	20070118	WO 2006-EP63968	20060706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005033146A 20050713
OTHER SOURCE(S): MARPAT 146:163132
GI



AB Title compds. [I; R1, R2 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkadienyl, (halo)alkoxy, etc. or NR1R2 = (substituted) 5- or 6-membered (unsatd.) aromatic heterocyclyl containing O, N, S; R3 = (substituted) pyrrolyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, isothiazolyl; R4 = H, halo, OH, cyano, NR6R7, (halo)alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; R5, R7 = R1, R2, R5 = H, halo, cyano, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)cycloalkyl, alkylthio, alkylsulfinyl, alkylsulfonyl], were prepared. Thus, 2-bromo-5,7-dichloro-6-(3,5-dimethylpyrazol-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine (preparation given) was stirred with 4-methylpiperidine and Et3N in CH2Cl2 for 12 h at room temperature to give 2,5-dichloro-6-(3,5-dimethylpyrazol-1-yl)-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine (II) and 2,5-dichloro-6-(3,5-dimethyl-4-bromopyrazol-1-yl)-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. II as a 250 ppm spray on wheat seedlings infected with Puccinia recondita spores reduced infection to 3%, vs. 90% for untreated controls.

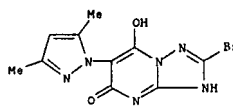
L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

IT 920034-73-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
RN 920034-73-7 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 2-bromo-6-(3,5-dimethyl-1H-pyrazol-1-yl)-7-hydroxy- (CA INDEX NAME)



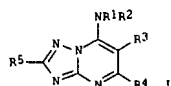
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2007:54240 CAPLUS
DOCUMENT NUMBER: 146:163131
TITLE: Preparation of 5-alkyl-7-amino-6-heteroaryl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver; Ulmschneider, Sarah; Huenger, Udo
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 94pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007006724	A1	20070118	WO 2006-EP63970	20060706
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005033143A 20050713
DE 2005-102005036319A 20050729

OTHER SOURCE(S): MARPAT 146:163131
GI



AB Title compds. [1; R1, R2 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkadienyl, (halo)alkoxy, etc. or R1R2N = (substituted) 5- or 6-membered (unsatd.) aromatic heterocyclyl; R3 = (substituted) 5-membered aromatic heterocyclyl containing O, N, S; R4 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl, cyanoalkyl, alkoxyalkyl; R5 = H, halo, cyano, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)cycloalkyl, alkylthio, alkylsulfinyl, alkylsulfonyl], were prepared. Thus, di-Et 2-[6-(3,5-dimethylpyrazol-1-yl)-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine-5-yl]malonate (preparation given) was stirred with HCl for 4 h at 80° followed by stirring for 12 h at room temperature to give 6-(3,5-dimethylpyrazol-1-yl)-5-methyl-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. The latter as a 250 ppm spray on wheat seedlings reduced infection by Puccinia recondita to 10%, vs. 90% for untreated controls.

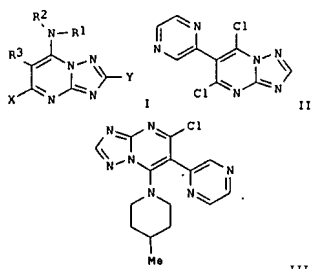
IT 920267-04-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2006:627599 CAPLUS
DOCUMENT NUMBER: 145:103702
TITLE: Preparation of 7-amino-6-heteroaryl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver; Grote, Thomas; Rheinheimer, Joachim; Nave, Barbara; Stierl, Reinhard
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

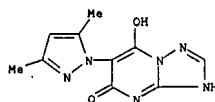
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006066818	A2	20060629	WO 2005-EP13577	20051216
WO 2006066818	A3	20061102		
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2004-102004060958A 20041217
DE 2004-102004062199A 20041223

OTHER SOURCE(S): MARPAT 145:103702
GI



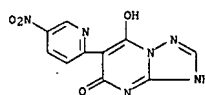
L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
(prepn. of (alkyl) (amino) (heteroaryl) triazolopyrimidines as agrochem. fungicides)
RN 920267-04-5 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dimethyl-1H-pyrazol-1-yl)-7-hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 13
THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

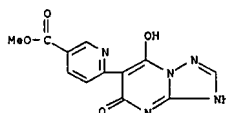
L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
AB Title compds. I [R3 = pyridinyl, pyridazinyl, pyrazinyl, etc.; R1, R2 = H, alkyl, haloalkyl, etc.; X = H, OH, halo, etc.; Y = H, halo, CN, etc.] were prepared. For example, condensation of 4-methylpiperidine and dichloropyrimidine II afforded triazolopyrimidine III in 48% yield. In alternaria solani tomato protection assays, 42-examples of compds. I at 250 ppm exhibited 90% protection after 5-days.

IT 896107-00-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of aminoheteroaryltriazolopyrimidines as agrochem. fungicides)
RN 896107-00-9 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(5-nitro-2-pyridinyl)- (9CI) (CA INDEX NAME)

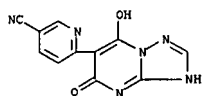


IT 896107-01-0P 896107-02-1P 896107-03-2P
896107-04-3P 896107-05-4P 896107-06-5P
896107-07-6P 896107-08-7P 896107-09-8P
896107-10-1P 896107-11-2P 896107-12-3P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminoheteroaryltriazolopyrimidines as agrochem. fungicides)

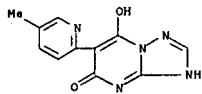
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CN 3-Pyridinylcarboxylic acid, 6-(1,5-dihydro-7-hydroxy-5-oxo[1,2,4]triazolo[1,5-a]pyrimidin-6-yl)-, methyl ester (9CI) (CA INDEX NAME)



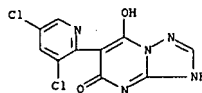
RN 896107-02-1 CAPLUS
CN 3-Pyridinylcarbonitrile, 6-(1,5-dihydro-7-hydroxy-5-oxo[1,2,4]triazolo[1,5-a]pyrimidin-6-yl)- (9CI) (CA INDEX NAME)



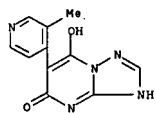
RN 896107-03-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(5-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



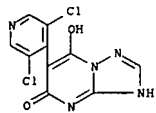
RN 896107-04-3 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dichloro-2-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



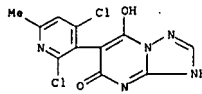
RN 896107-05-4 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)



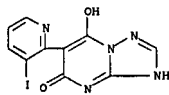
RN 896107-06-5 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3-bromo-4-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



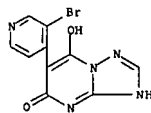
RN 896107-11-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(2,4-dichloro-6-methyl-3-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



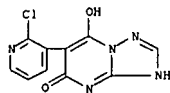
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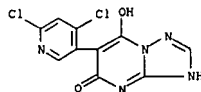
IT 896107-51-0P, 6-(Pyrazin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol 896107-53-2P, 6-(4-Methylpyridin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol 896107-54-3P, 6-(3-Methylpyridin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol 896107-56-5P, 6-(6-Methylpyridin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aminoheteroaryltriazolopyrimidines as agrochem. fungicides)
RN 896107-51-0 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-pyrazinyl- (9CI) (CA INDEX NAME)



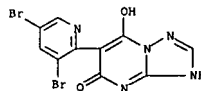
RN 896107-07-6 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(2-chloro-3-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



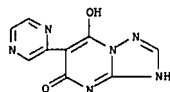
RN 896107-08-7 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(4,6-dichloro-3-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



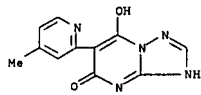
RN 896107-09-8 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dibromo-2-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



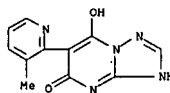
RN 896107-10-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dichloro-4-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



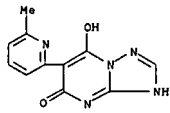
RN 896107-53-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(4-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 896107-54-3 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 896107-56-5 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 2004:1154715 CAPLUS

DOCUMENT NUMBER: 142:93845

TITLE: Method for producing triazolopyrimidines for use in controlling undesirable microorganisms

INVENTOR(S): Gebauer, Olaf; Guth, Oliver; Heinemann, Ulrich; Greul, Joerg Nico; Herrmann, Stefan; Gayer, Herbert; Elbe, Hans-Ludwig; Hillebrand, Stefan; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Kuck, Karl-Heinz

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

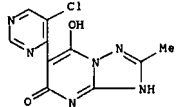
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004:113342	A1	2004:1229	WO 2004-EP6371	2004:0614
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10328481	A1	2005:0113	DE 2003-10328481	2003:0625
EP 1644374	A1	2006:0412	EP 2004-739855	2004:0614
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1812991	A	2006:0802	CN 2004-80018042	2004:0614
BR 2004:011741	A	2006:0829	BR 2004-11741	2004:0614
JP 2007:506659	T	2007:0322	JP 2006-515919	2004:0614
IN 2005:03514	A	2007:0608	IN 2005-CN3514	2005:1223
PRIORITY APPL. INFO.:			DE 2003-10328481	A 2003:0625
			WO 2004-EP6371	W 2004:0614
OTHER SOURCE(S):		MARPAT 142:93845		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to novel triazolopyrimidines I [R1 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, heterocycles; R2 = H, alkyl; NR1R2 = heterocycles; R3 = halogen, (un)substituted alkyl, cycloalkyl; R4 = (un)substituted heterocycles; X = halogen], to a method for producing said substances and to their use for controlling undesirable microorganisms. The invention also relates to novel intermediate products of the formulas II, III, IV [R5 = Cl-4-alkyl; R6 = halogen, haloalkyl] and V [R7 = halogen, haloalkyl; R8, R9 = H, F, Cl, Br, Me, Et, OH], in addition to methods for producing said substances. A procedure for the preparation of

I is characterized by the reaction of dihalotriazolopyrimidines II (Y1 = halogen) with R1R2NH optionally in the presence of a solvent, acid

(Continued)



REFERENCE COUNT: 8

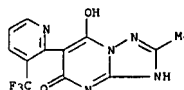
THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

acceptor and/or a catalyst; pyrimidines II are prepd. from diols III; diols III are prepd. from R4CH(CO2R5)2, e.g. IV and V, via cyclocondensation with 3-amino-5-R3-1,2,4-triazoles; malonate IV is prepd. from 3-R6-2-Y2-pyridine and CH2(CO2R5)2; malonate V is prepd. from pyrimidine VI (Y3 = halogen) and CH2(CO2R5)2. Thus, triazolopyrimidine (S)-I [R1 = CHMeCF3-(S), R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl, X = Cl] was prepd. from II [R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl, X = Y1 = Cl] via regioselective amination with NHCHMeCF3-(S) in MeCN contg. KF. Dichlorotriazolopyrimidine II [R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl, X = Y1 = Cl] was prepd. from 2-chloro-3-(trifluoromethyl)pyridine via sequential arylation of CH2(CO2Me)2 in dioxane contg. NaH and catalytic CuCl, cyclocondensation of the resulting heterocyclomalonate IV [R5 = Me, R6 = CF3] with 3-amino-5-cyclopropyl-1,2,4-triazole in the presence Bu3N and chlorination of the triazolopyrimidinediol III [R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl] with POCl3. The antimicrobial activities of I were detd. (over 90% inhibition vs. *Podosphaera leucotricha* at 100 g/ha, over 90% inhibition vs. *Sphaerotheca fuliginea* at 750 g/ha and over 85% inhibition vs. *Erysiphe graminis* at 500 g/ha for (S)-I [R1 = CHMeCF3-(S), R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-4-yl, X = Cl]; over 90% inhibition vs. *Podosphaera leucotricha*, *Uncinula necator* and *Venturia inaequalis* at 100 g/ha for (S)-I [R1 = CHMeCF3-(S), R2 = H, R3 = cyclopropyl, R4 = 5-chloropyrimidin-4-yl, X = Cl]).

IT 817169-70-3P, 5,7-Dihydroxy-2-methyl-6-[3-(trifluoromethyl)pyridin-2-yl][1,2,4]triazolo[1,5-a]pyrimidine
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deoxygenation of); preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 817169-70-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-2-methyl-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



IT 817169-69-0P, 5,7-Dihydroxy-6-[5-chloropyrimidin-4-yl]-2-methyl[1,2,4]triazolo[1,5-a]pyrimidine
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deoxygenation of); preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 817169-69-0 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(5-chloro-4-pyrimidinyl)-7-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2004:1154714 CAPLUS

DOCUMENT NUMBER: 142:93844

TITLE: Method for producing triazolopyrimidines and to their use for controlling undesirable microorganisms

INVENTOR(S): Gebauer, Olaf; Heinemann, Ulrich; Greul, Joerg Nico; Herrmann, Stefan; Guth, Oliver; Elbe, Hans-Ludwig; Gayer, Herbert; Hillebrand, Stefan; Wachendorff-Neumann, Ulrike; Kuck, Karl-Heinz; Dahmen, Peter

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004:113341	A2	2004:1229	WO 2004-EP6369	2004:0614
WO 2004:113341	A3	2005:0512		
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EP 1638974	A2	2006:0329	EP 2004-739853	2004:0614
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1809571	A	2006:0726	CN 2004-80017546	2004:0614
BR 2004:011972	A	2006:0829	BR 2004-11972	2004:0614
JP 2007:506657	T	2007:0322	JP 2006-515917	2004:0614
US 2006:281767	A1	2006:1214	US 2006-561174	2006:0606
PRIORITY APPL. INFO.:			DE 2003-10328173	A 2003:0624
			WO 2004-EP6369	W 2004:0614
OTHER SOURCE(S):		MARPAT 142:93844		
GI				

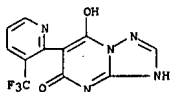
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to novel triazolopyrimidines I [R1 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, heterocycles; R2 = H, halogen, (un)substituted alkyl, cycloalkyl; R3 = (un)substituted heteroalkyl; G = SO_n; X = halogen, CN, (un)substituted alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; n = 0 - 2], to a method for producing said substances and to their use for controlling undesirable microorganisms. The procedure for the preparation of I is characterized by the reaction of dihalotriazolopyrimidines II (X1, Y1 = halogen) with R1GH to give I (X = X1) which is further reacted with (i) R4-M (R4 = (un)substituted alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; CN; M = Na, K); or (ii) R5Mq-Hal

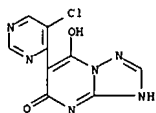
L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 [R5 = (un)substituted alkyl; Hal = Cl, Br] in a dil. medium. The invention also relates to novel intermediate products of the formulas III, IV (R6 = Cl-4-alkyl; R7 = alkyl, haloalkyl) and V (R8 = halo, haloalkyl; R9, R10 = H, F, Cl, Br, Me, Et, OMe), in addn. to methods for producing said substances. Thus, triazolopyrimidine I (R1 = CHMeCHMe2, R2 = H, R3 = 4-chloro-3-pyrimidinyl, G = S, X = Cl) was prepd. from dihalotriazolopyrimidine II (R2 = H, R3 = 4-chloro-3-pyrimidinyl, X1 = Y1 = Cl) via reaction with Me2CHCHMeSH in MeCN contg. KF and K2CO3. The antimicrobial activity of I (R1 = CHMeCHMe2, R2 = H, R3 = 4-chloro-3-pyrimidinyl, G = S, X = Cl) was detd. [100% inhibition vs. *Podospheara leucotricha* at 100g/ha; 90% inhibition vs. *Venturia inaequalis* at 100g/ha; ED50 = 10 ppm vs. *Botrytis cinerea*].

IT 809276-84-4P, 5,7-Dihydroxy-6-[3-(trifluoromethyl)pyridin-2-yl][1,2,4]triazolo[1,5-a]pyrimidine 809276-85-5P, 5,7-Dihydroxy-6-(5-chloropyrimidin-4-yl)[1,2,4]triazolo[1,5-a]pyrimidine
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and chlorodeoxygenation of; preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 809276-84-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 809276-85-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(5-chloro-4-pyrimidinyl)-7-hydroxy- (9CI) (CA INDEX NAME)

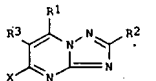


IT 816457-18-8P 816457-19-9P 816457-22-4P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 816457-18-8 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-(5-chloro-4-pyrimidinyl)-7-(2,2,2-trifluoro-1-methylethoxy)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2004:1154559 CAPLUS
 DOCUMENT NUMBER: 142:70279
 TITLE: Preparation of triazolopyrimidine derivatives as fungicides
 INVENTOR(S): Gebauer, Olaf; Heinemann, Ulrich; Greul, Joerg Nico; Herrmann, Stefan; Guth, Oliver; Gayer, Herbert; Elbe, Hans-Ludwig; Hillebrand, Stefan; Ebbert, Ronald; Wachendorf-Neumann, Ulrike; Kuck, Karl-Heinz
 PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany; et al.
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

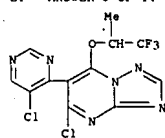
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004/112480	A2	2004/12/29	WO 2004-EP6368	2004/06/14
WO 2004/112480	A3	2005/09/22		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, BF, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10328171	A1	2005/01/13	DE 2003-10328171	2003/06/24
EP 1638400	A2	2006/03/29	EP 2004-736746	2004/06/14
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1812717	A	2006/08/02	CN 2004-80017907	2004/06/14
BR 2004/011736	A	2006/08/29	BR 2004-11736	2004/06/14
JP 2007506656	T	2007/03/22	JP 2006-515916	2004/06/14
PRIORITY APPLN. INFO.: DE 2003-10328171 A 2003/06/24 WO 2004-EP6368 W 2004/06/14				
OTHER SOURCE(S): MARPAT 142:70279				
GI				



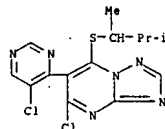
AB The triazolopyrimidines I [R1 = (un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = H, halo, (un)substituted (cyclo)alkyl; R3 = (un)substituted heterocyclyl; X = halo, CN, (un)substituted alkyl, alkoxy, alkylthio, alkylsulfinyl or alkylsulfonfyl] are prepd/ as fungicides.

IT 809276-84-4 809276-85-5

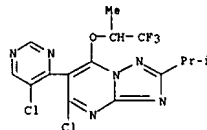
L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 816457-19-9 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-(5-chloro-4-pyrimidinyl)-7-[(1,2-dimethylpropyl)thio]- (9CI) (CA INDEX NAME)



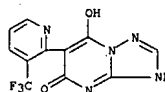
RN 816457-22-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-(5-chloro-4-pyrimidinyl)-2-(1-methylethyl)-7-(2,2,2-trifluoro-1-methylethoxy)- (9CI) (CA INDEX NAME)



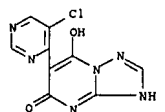
L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant in prepn. of triazolopyrimidine deriv. fungicide)

RN 809276-84-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

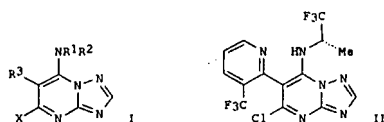


RN 809276-85-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(5-chloro-4-pyrimidinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



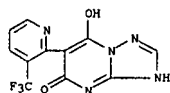
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2004:1080907 CAPLUS
 DOCUMENT NUMBER: 142:56343
 TITLE: Preparation of triazolopyrimidines as microbicides
 INVENTOR(S): Gebauer, Olaf; Heinemann, Ulrich; Elbe, Hans-Ludwig; Gayer, Herbert; Herrmann, Stefan; Greul, Joerg Nico; Krueger, Bernd-Wieland; Hillebrand, Stefan; Ebbert, Ronald; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Kuck, Karl-Heinz
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004108727	A1	20041216	WO 2004-EP5876	20040601
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10325133	A1	20041223	DE 2003-10325133	20030604
EP 1641798	A1	20060405	EP 2004-735570	20040601
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
BR 2004010906	A	20060627	BR 2004-10906	20040601
CN 1802379	A	20060712	CN 2004-80015481	20040601
JP 2006526587	T	20061124	JP 2006-508237	20040601
PRIORITY APPL. INFO.:			DE 2003-10325133	A 20030604
			WO 2004-EP5876	W 20040601
OTHER SOURCE(S):	MARPAT 142:56343			
GI				

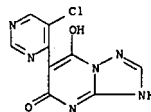


AB Title compds. I: R1 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, heterocyclyl; R2 = H, alkyl; R1R2N = (substituted) heterocyclyl; R3 = (substituted) pyridyl, pyrimidinyl; X = halo, were prepared Thus, 5,7-dichloro-6-(3-trifluoromethylpyridin-2-yl)-[1,2,4]-triazolo[1,5-

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 alpyrimidine (prepn. given) was stirred 2 h at 80° with KF in MeCN; the mixt. was cooled to 0° and (S)-2,2,2-trifluoroisopropylamine was added followed by stirring at 80° for 19 h to give 60.4% title compd. (II). I and other I at 100 g/ha gave 250% protection against Podosphaera leucotricha on apples.
 IT 809276-84-4P 809276-85-5P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 RN 809276-84-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



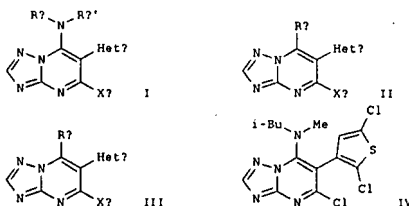
RN 809276-85-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(5-chloro-4-pyrimidinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

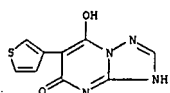
L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2004:101166 CAPLUS
 DOCUMENT NUMBER: 140:146163
 TITLE: Preparation of triazolopyrimidine derivatives as fungicides
 INVENTOR(S): Masumizu, Tatsuyuki; Tajino, Hidehiro; Murakami, Hideyuki; Watanabe, Masaru; Wakabayashi, Hitoshi; Hiramatsu, Motohiro; Tahara, Tomomi
 PATENT ASSIGNEE(S): Hokko Chemical Industry Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 114 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011467	A1	20040205	WO 2003-JP9615	20030729
W:	JP, US			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR			
PRIORITY APPL. INFO.:			JP 2002-219751	A 20020729
			JP 2002-229836	A 20020807
			JP 2002-249906	A 20020829
OTHER SOURCE(S):	MARPAT 140:146163			
GI				



AB The title compds. I [wherein HetA = (un)substituted heterocyclyl; XA = halo, CN, alkoxy, alkylthio, alkyl-SO2-, alkylamino, or alkoxy-carbonyl; RA and RA' = independently (un)substituted alkyl, alkenyl, alkynyl, or Ph], II [wherein HetB = (un)substituted heterocyclyl; XB = halo, CN, alkoxy, alkylthio, alkyl-SO2-, alkylamino, or alkoxy-carbonyl; RB = (un)substituted heterocyclyl], and III [wherein HetC = (un)substituted heterocyclyl; XC = halo, CN, alkoxy, or alkylthio; RC = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, or (un)substituted aralkyl] are prepared as fungicides for agricultural and horticultural use. For example, the compound IV was prepared in a multi-step synthesis. I-III showed significant antifungal effect against Pyricularia oryzae.
 IT 653584-04-4P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of triazolopyrimidine derivs. as fungicides)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 RN 653584-04-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3-thienyl)- (9CI) (CA INDEX NAME)

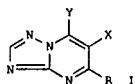


REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2003:376523 CAPLUS
DOCUMENT NUMBER: 138:364176
TITLE: Preparation of 1,2,4-triazolo[1,5-a]pyrimidine derivatives as fungicides
INVENTOR(S): Worthington, Paul Anthony; Valancogne, Ingrid Aurelie; Fawke, Delphine Raymonde Suzanne; Dobler, Markus
PATENT ASSIGNEE(S): Syngenta Limited, UK; Syngenta Participations AG
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

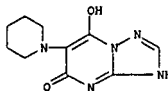
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003039259	A1	20030515	WO 2002-GB4734	20021021
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, HD, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002334202	A1	20030519	AU 2002-334202	20021021
PRIORITY APPLN. INFO.: GB 2001-26914 A 20011108 WO 2002-GB4734 W 20021021				
OTHER SOURCE(S): MARPAT 138:364176				
GI				



AB Prepared are fungicidal 1,2,4-triazolo[1,5-a]pyrimidine derivs. I wherein R is H, halo, alkyl or cyano; X and Y are halo, alkoxy, alkylthio, arylthio, arylthio, heteroarylthio, heteroarylthio, heteroarylalkoxy, heteroarylalkoxy, heteroarylalkylthio, heteroarylalkylthio, alkylamino, alkenylamino, alkynylamino, dialkylamino, dialkenylamino, dialkynylamino, etc.

IT 91716-45-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate in preparation of 1,2,4-triazolo[1,5-a]pyrimidine derivative)
RN 91716-45-9 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1-piperidinyl)-(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

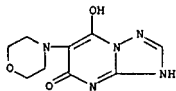
L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1962:483245 CAPLUS
DOCUMENT NUMBER: 57:83245
ORIGINAL REFERENCE NO.: 57:16607e-h
TITLE: Synthesis of potential anticancer agents. VI. Reactivity of 6-bromo-s-triazolo[2,3-a]pyrimidines
AUTHOR(S): Makizumi, Yasuo
CORPORATE SOURCE: Shionogi & Co., Osaka
SOURCE: Chemical & Pharmaceutical Bulletin (1961), 9, 814-17
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB The possible activation of the generally inactive Br at the 6-position of s-triazolo[2,3-a]pyrimidine (I) by adjacent groups capable of tautomerism was realized by refluxing 3-4 hrs. the 6,5,7-Br(HO) (H2N) derivative (II) of I

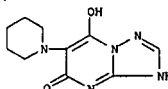
I and the 6,5,7-Br(HO)2 derivative (III) of I with piperidine (IV) and morpholine (V) at the b.p.s. of IV and V, resp., to give the corresponding 6-piperidino (VI and VII) and 6-morpholino (VIII and IX) compds. (weight II or III, weight IV or V, yield and m.p. product given): 1 g. II, 2 g. IV, 0.8 g. VI, 259.5° (decomposition); 0.5 g. III, 1 g. V, 0.4 g. VIII, 309° (decomposition); 1 g. III, 2 g. IV, 0.9 g. VII, 320-1° (decomposition); and 1.1 g. III, 2.2 g. V, 1 g. IX, 295° (decomposition). III (0.6 g.) refluxed 30 min. in EtOH with 0.2 g. SC(NH2)2 yielded 0.47 g. corresponding 6-[HN:C(NH2)S] compound (X), m. above 320°, and this (0.5 g.) heated 30 min. on a water bath with 5 cc. N NaOH, the filtrate from the hot mixture precipitated with EtOH, and the resulting Na salt dissolved in H2O and acidified with HCl yielded 0.3 g. bis(5,7-dihydroxy-s-triazolo[2,3-a]pyrimidin-6-yl) disulfide (XI), m. 234-5° (decomposition), formed also (0.6 g.) by refluxing 1.1 g. III 3 hrs. on a water bath with 0.38 g. SC(NH2)2 in the presence of 1% NaOH. Polarography of XI confirmed the disulfide linkage. However, 0.6 g. II refluxed 5 hrs. with 0.2 g. SC(NH2)2 in EtOH failed to give a compound corresponding to X, but yielded free S and 0.23 g. known 5,7-HO(H2N) derivative (XII) of I, m. above 320°, whereas in the presence of 10% NaOH the heated mixture of 1.2 g. II with 0.4 g. SC(NH2)2 in H2O yielded 0.1 g. bis(5-hydroxy-7-amino-s-triazolo[2,3-a]pyrimidin-6-yl) sulfide, m. above 320°, together with 0.4 g. XII.

IT 90887-37-9P, s-Triazolo[1,5-a]pyrimidine-5,7-diol, 6-morpholino-91716-45-9P, s-Triazolo[1,5-a]pyrimidine-5,7-diol, 6-piperidino-RL: PREP (Preparation)
(preparation of)
RN 90887-37-9 CAPLUS
CN s-Triazolo[1,5-a]pyrimidine-5,7-diol, 6-morpholino- (7CI) (CA INDEX NAME)



RN 91716-45-9 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1-piperidinyl)-(9CI) (CA INDEX NAME)

L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



ACCESSION NUMBER: 1962:483243 CAPLUS
 DOCUMENT NUMBER: 57:83243
 ORIGINAL REFERENCE NO.: 57:16606b-1, 16607a
 TITLE: Synthesis of potential anticancer agents. IV.
 5,7-Di-substituted s-triazolo[2,3-a]pyrimidines
 AUTHOR(S): Makisumi, Yasuo
 CORPORATE SOURCE: Shionogi & Co., Osaka
 SOURCE: Chemical & Pharmaceutical Bulletin (1961), 9, 801-8
 CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. ibid. 7, 907(1959); CA 54, 14259b. Condensing 32 g. H₂C(CO₂Et)₂ with 16.8 g. 5-amino-1H-1,2,4-triazole (I) in the presence of EtONa in EtOH by refluxing 8 hrs. and acidifying the resulting Na salt yielded 15.2 g. 5,7-(HO)₂ derivative (II) of s-triazolo[2,3-a]pyrimidine (III), m. 238° (decomposition). Use of 11.3 g. NCH₂CO₂Et with 8.4 g. I in a similar procedure yielded 8 g. 5,7-HO(HS) derivative (IV) of III, m. above 320°. Similarly, refluxing 14.2 g. MeS₂CCH₂CO₂Et with 6.7 g. I 15 hrs. yielded 5,7-HO(HS) derivative (V) of III, m. above 320°. The structure of II was confirmed by heating 4 hrs. with POC₁₃ at 100°, concentrating the resulting mixture, and extracting with CHCl₃ to yield 4.2 g. 5,7-Cl₂ derivative (VI) of III, m. 131-2°, and this (0.5 g.) catalytically reduced (Pd-C) in EtOH yielded 0.2 g. III, m. 145-6°, identical with an authentic sample. Stopping the catalytic reduction of VI (1 g.) after the absorption of only 1 mole H, in place of 2 moles H, yielded 0.5 g. 5-Cl derivative (VII) of III, m. 173-3.5° (mixed m.p. 148-50° with the 7-Cl derivative of III, m. 175-6°), and further reduction of 0.5 g. VII yielded 0.35 g. III. Heating 0.5 g. VI 9 hrs. in a sealed tube at 160° with EtOH-NH₃ yielded 0.25 g. 5,7-(H₂N)₂ derivative (VIII) of III, m. 300.5° (decomposition), formed also (0.2 g.) by stirring 5 g. VI 2 hrs. at room temperature with concentrated NH₄OH to yield 3.9 g. 5,7-Cl(H₂N) derivative (IX) of III, m. above 320°, and heating 0.3 g. IX 10 hrs. in a sealed tube at 160° with EtOH-NH₃. Further, refluxing 1.5 g. VI 1 hr. with 1.5 g. SC(NH₂)₂ in EtOH yielded 1.25 g. 5,7-(HS)₂ derivative of III, m. above 320°, and this (0.4 g.) in 1% NaOH shaken 2 hrs. at room temperature with MeI yielded 0.35 g. 5,7-(MeS)₂ derivative (X) of III, m. 221-2°, formed also (0.3 g.) by the similar treatment of 0.3 g. 5,7-HS(MeS) derivative (XI) of III with MeI. Hydrolysis of 0.4 g. VI by heating 30 min. on a water bath with 5% NaOH or 10% HCl gave, not the expected II, but 0.3 g. 5,7-Cl(HO) derivative (XII) of III, m. 257° (decomposition), which (0.7 g.) was catalytically reduced (Pd-C) in EtOH containing a little NH₄OH to yield 0.4 g. 7-HO derivative (XIII) of III, m. 288-9°, identical with the condensation product of malic acid with I [ibid. 7, 907(1959)]. Similar catalytic reduction of 0.5 g. IX yielded 0.3 g. 7-H₂N derivative (XIV) of III, m. 278-9°; 7-AcNH derivative, m. 238-8.5°. The 5-H₂N derivative (XV) of III (0.2 g.), m. 266-7° (5-AcNH derivative, m. 296-7°), was prepared by heating 0.5 g. VII 10 hrs. in a sealed tube at 120° with EtOH-NH₃. VII (0.4 g.) refluxed 1 hr. with SC-(NH₂)₂ yielded 0.25 g. 5-HS derivative (XVI) of III, m. 259-60° (decomposition), and this (0.1 g.) with MeI in 1% NaOH yielded 60 mg. 5-MeS derivative (XVII) of III, m. 157-8.5°. The corresponding 7-MeS derivative (XVIII) of III (0.4 g.), m. 207-8°, was similarly prepared from 0.5 g. 7-HS derivative of III. VII (0.2 g.) hydrolyzed by heating

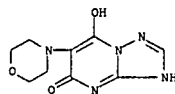
1 hr. on a water bath with 10% HCl yielded 0.15 g. 5-HO deriv. (XIX) of III, m. 274-5°. Comparison of the ultraviolet absorption spectra and evidence of mixed m.p.s. confirmed the structures of the isomeric 5- and 7-substituted pairs, VII and its 7-Cl isomer (loc. cit.), XIX and XIII, XV and XIV, XVII and XVIII. All these results showed Cl at both 5- and 7-positions of III active toward nucleophilic substitution, the activity of Cl at the 7-position being greater, and either an HO or an NH₂ group at the 7-position stabilized the Cl at the 5-position. To confirm the structure of V (0.8 g.) it was treated with MeI in NaOH as above to yield 0.8 g. 5,7-HO(MeS) deriv. (XX) of III, m. 293°, and this (0.3 g.) heated 10 hrs. in a sealed tube at 150-60° with EtOH-NH₃ yielded 0.15 g. IV. Further, XX (4.5 g.) refluxed 2 hrs. with POC₁₃ in the presence of PhNMe₂ yielded 3 g. 5,7-Cl(MeS) deriv. (XXI) of III, m. 207-8°, which (0.8 g.) refluxed 3 hrs. with SC(NH₂)₂ in EtOH yielded 0.18 g. bis(7-methylthio-s-triazolo[2,3-a]pyrimidin-5-yl) sulfide (XXII), m. 288-9° (decompn.), and from the acidified filtrate 0.54 g. 5,7-HS(MeS) deriv. (XXIII) of III, m. 245-6° (decompn.). The structure of XXII was confirmed by its prepn. (0.35 g.) from 0.2 g. XXIII refluxed 3 hrs. with 0.2 g. XXI in 30 cc. EtOH contg. 4 cc. 1% NaOH. XXI (2 g.) heated 10 hrs. in a sealed tube at 150-60° with EtOH-NH₃ yielded 1.3 g. 5,7-H₂N(MeS) deriv. of III, m. 230-1°, formed also (0.35 g.) by the same treatment of 0.4 g. X. Ultraviolet data were reported for II, IV, V, IX, X, and XII in addn. to the above-mentioned isomeric pairs.

IT 90887-37-9 91716-45-9

(Derived from data in the 7th Collective Formula Index (1962-1966))

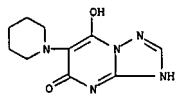
RN 90887-37-9 CAPLUS

CN s-Triazolo[1,5-a]pyrimidine-5,7-diol, 6-morpholino- (7Cl) (CA INDEX NAME)



RN 91716-45-9 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1-piperidinyl)- (9Cl) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 09:49:05 ON 11 JUL 2007)

FILE 'REGISTRY' ENTERED AT 09:51:18 ON 11 JUL 2007

L1 STRUCTURE UPLOADED
L2 3 S L1
L3 35 S L1 FULL

FILE 'CAPLUS' ENTERED AT 09:52:10 ON 11 JUL 2007

L4 14 S L3

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COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

79.42

252.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
SESSION

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	190	514/259.31.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/11 10:16
L2	1736	triazolopyrimidine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/11 10:16
L3	111	I1 I2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:16
L4	1	antimicrobial I3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:17
L5	2	I3 antifungal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:17
L6	24989	I3 micro-organism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/11 10:19
L7	3	I3 micro-organism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:19